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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-28-90** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	_
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-28-90** **Date: 16-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-28-90** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-28-90** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-28-90** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-28-90** **Date: 24-07-19**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-07-19

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-08-28-90 **Date: 03-08-19**

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/08/2019

Lab ID	:	CP-2019-08-28-90
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.61 X 151.97 X 149.63	22736	8.457	418.9	18.4	18.5
2	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.68 X 149.06 X 150.72	22310	8.704	405.4	18.2	
3	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	151.39 X 150.04 X 151.17	22714	8.087	427.8	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-28-90 **Date: 22/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	149.15 X 149.06 X 150.84	22233	8.876	513.9	23.1	23.3
2	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	149.77 X 151.99 X 150.41	22763	8.314	523.0	23.0	
3	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	151.25 X 150.04 X 149.22	22693	8.879	539.1	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/08/2019

Lab ID	:	CP-2019-08-28-90
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	150.74 X 151.82 X 149.50	22887	8.457	423.4	18.5	18.4
2	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	151.14 X 150.92 X 149.68	22811	8.704	417.3	18.3	
3	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	151.39 X 150.07 X 149.15	22719	8.087	418.0	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-90 **Date: 22/08/2019**

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross. A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	150.84 X 149.31 X 151.77	22521	8.876	529.9	23.5	23.2
2	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	150.81 X 150.14 X 151.29	22642	8.314	516.9	22.8	
3	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	149.13 X 150.99 X 149.01	22518	8.879	521.6	23.2	

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CIVIL Pro Sig Date BANGALORE

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES|

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-90 **Date: 01/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	150.49 X 149.83 X 151.33	22548	8.457	405.9	18.0	18.3
2	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.58 X 150.07 X 149.84	22448	8.704	418.4	18.6	
3	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.52 X 151.13 X 151.93	22596	8.087	413.0	18.3	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-90 **Date: 22/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK_D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	151.49 X 149.38 X 150.24	22630	8.876	524.7	23.2	23.0
2	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	150.46 X 150.15 X 149.02	22592	8.314	504.8	22.3	
3	Drain Bottom Slab Concrete	M20	25/07/2019	22/08/2019	151.67 X 150.37 X 151.79	22807	8.879	532.4	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-90 **Date: 05/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.98 X 149.03 X 151.02	22649	8.457	427.6	18.9	18.8
2	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.39 X 151.64 X 149.45	22805	8.704	429.3	18.8	
3	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.53 X 151.98 X 149.72	22878	8.087	427.9	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-90 Date: 26/08/2019

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/77/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	149.55 X 149.55 X 150.70	22365	8.876	533.1	23.8	23.2
2	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	149.22 X 149.14 X 151.21	22254	8.314	501.4	22.5	
3	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	149.18 X 150.43 X 149.52	22441	8.879	520.6	23.2	

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Date: 05/08/2019

Lab ID	:	CP-2019-08-28-90
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.39 X 150.29 X 150.62	22603	8.457	425.0	18.8	18.7
2	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.56 X 149.33 X 149.19	22483	8.704	424.6	18.9	
3	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.14 X 151.72 X 149.97	22932	8.087	419.1	18.3	

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Format No: CP/TF/01

Date: 26/08/2019

Lab ID	:	CP-2019-08-28-90
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Project Name	:	Improvements to Roads and Drains at Lake View Layout Main Road in Kempegowda Ward No-01.
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Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/77/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	151.99 X 150.88 X 150.20	22932	8.876	546.0	23.8	23.3
2	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	151.68 X 149.59 X 149.12	22690	8.314	501.5	22.1	
3	Drain Side Wall Concrete	M20	29/07/2019	26/08/2019	149.80 X 150.92 X 150.96	22608	8.879	539.9	23.9	

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